

**METHODS OF ENHANCING SPLP-MEDIATED TRANSFECTION
USING ENDOSOMAL MEMBRANE DESTABILIZERS**

ABSTRACT OF THE DISCLOSURE

The present invention provides novel and surprisingly effective methods for delivering nucleic acids to cells. These methods are based upon the discovery that the presence of endosomal membrane destabilizers (e.g., calcium) leads to a dramatic increase in 5 the transfection efficiency of plasmids formulated as SPLP, or "stabilized plasmid-lipid particles."

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